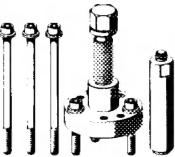
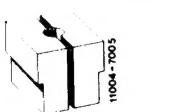


## 05–340 Removal and installation of slide rails

### Tightening torques

	Nm
Cylinder head cover capped nuts and bolts	5
Radiator drain plug	10
Ball locating ring in chain tensioner	25
Necked-down screw camshaft sprocket	80
Balance disc to crankshaft	400+50
Oil cooler drain plug	35

### Special tools

Impact extractor for bearing pin (basic unit)	 11004-6220	116 589 20 33 00
Bolt 6 x 50 for impact extractor	 11004-6368	116 589 01 34 00
Bolt 6 x 150 for impact extractor	 11004-6216	116 589 02 34 00
Bolt 10 x 100 for impact extractor	 11004-6216	116 589 03 34 00
Balance disc extractor	 11004-6216	116 589 10 33 00
Rigid chain tensioner	 11004-7006	110 589 03 31 00
Chain tensioner holder	 11004-7005	110 589 02 31 00
Holder	 11004-6723	116 589 01 40 00

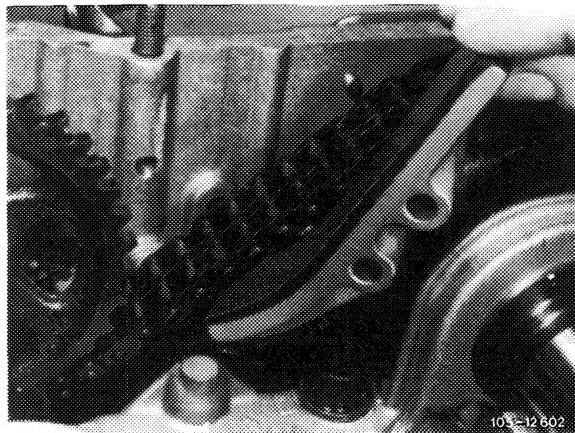
## Sliding rail (2) in camshaft housing

- 1 Remove valve cover and knock out sliding rail pin with an impact extractor.

Remove sliding rail.

- 2 Watch position of sliding rail when installing.

Coat collar of sliding rail pin with a sealing compound.



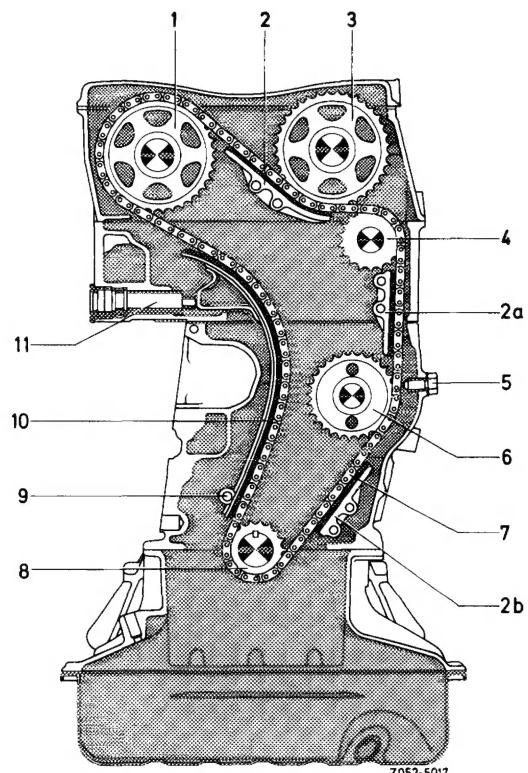
105 - 12.602

## Sliding rail (2a) in cylinder head

- 1 Remove radiator.
- 2 Remove chain tensioner or spring in chain tensioner (05–310).
- 3 Mark relation of camshaft sprockets and timing chain with paint.
- 4 Remove sliding rail (2) in camshaft housing.

Chain drive

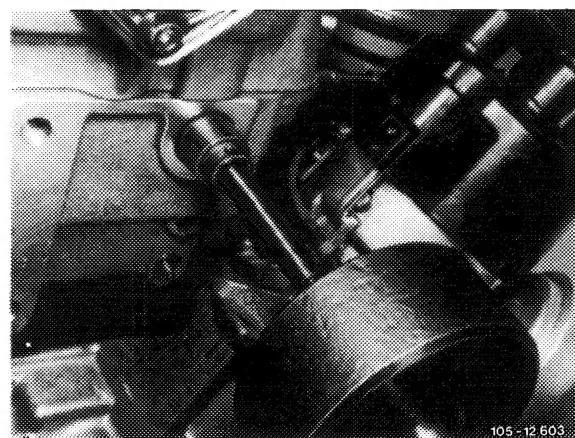
1	Exhaust camshaft sprocket
2–2b	Sliding rail
3	Intake camshaft sprocket
4	Guide wheel
5	Lock screw
6	Intermediate wheel
7	Timing chain
8	Crankshaft sprocket
9	Tensioning rail bearing pin
10	Tensioning rail
11	Hydraulic chain tensioner



Z052-5017

- 5 Connect a wire hook (5 mm thick) to guide wheel (4) and knock out the bearing pin with an impact extractor (10 mm bolt).

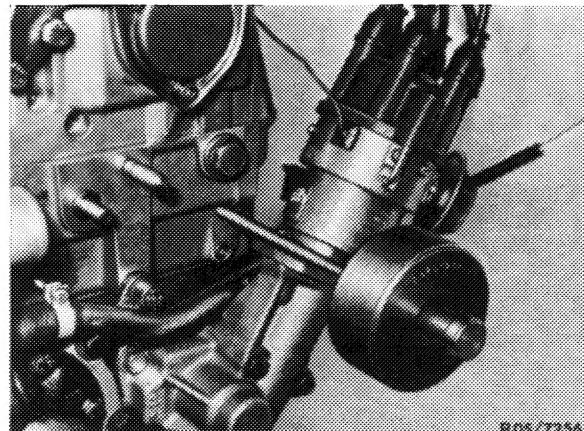
Remove guide wheel.



105 - 12.603

6 Knock out sliding rail pin with an impact extractor and pull out sliding rail with a wire hook.

7 Installation in reverse sequence of removal.



#### Sliding rail (2b) in crankcase

- 1 Remove radiator.
- 2 Remove entire oil pan (01–310).
- 3 Remove vibration damper and balance disc (03–340).
- 4 Mark relation of camshaft sprockets and timing chain with paint.
- 5 Remove sliding rail (2) and guide wheel (4).
- 6 Remove chain tensioner or compression spring (05–310).
- 7 Knock out sliding rail pin with an impact extractor and remove sliding rail.
- 8 Installation in reverse sequence of removal.

